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(21) Application number: <b>2001210389</b>	(71) Applicant: <b>ASAHI KASEI CORP NOGUCHI INST</b>		
(22) Date of filing: <b>11.07.01</b>	(72) Inventor: <b>FURUYA MASAHIKO TOMOKUNI KEIZO NAKAJIMA HITOSHI</b>		

**(54) CATALYST FOR PRODUCING HYDROGEN PEROXIDE**

**(57) Abstract:**

PROBLEM TO BE SOLVED: To provide a catalyst excellent in activity and selectivity for synthesizing hydrogen peroxide directly from hydrogen and oxygen and a method for producing hydrogen peroxide using the catalyst.

SOLUTION: The catalyst for synthesizing hydrogen peroxide directly from oxygen and hydrogen comprising at least one element selected from platinum group elements, rare earth elements, titanium, niobium, nickel, molybdenum, and tungsten and the method for producing hydrogen peroxide using the catalyst are provided.

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